Math 1 Name_____

Unit 3.3 Practice Solving systems using substitution

Period____

Solve each system by substitution.

1) $y = 2x - 5$
$y = -2x + 11$

$(4, 3)$

2) $y = 7x + 4$
$y = -6x + 4$

$(0, 4)$

3) $y = -8x - 12$
$y = x + 6$

$(-2, 4)$

4) $y = 8x + 5$
$y = 4x + 1$

$(-1, -3)$

5) $8x - 6y = -18$
$y = 6x - 11$

$(3, 7)$

6) $3x - y = 13$
$y = 3x - 13$

Infinite number of solutions

7) $y = 3x - 12$
$2x + 3y = 19$

$(5, 3)$

8) $-8x - 8y = 24$
$y = 5x + 9$

$(-2, -1)$

9) $-8x + y = -15$
$-6x - 6y = -18$

$(2, 1)$

10) $x + 2y = 4$
$-2x - 4y = 3$

No solution

11) $x - 3y = 5$
$-x + 3y = 7$

No solution

12) $3x + y = -4$
$3x - 6y = -18$

$(-2, 2)$

13) $3x - 3y = 9$
$-x - 6y = -17$

$(5, 2)$

14) $5x - 2y = 3$
$7x + 6y = 13$

$(1, 1)$

15) $-3x + 6y = 9$
$y = 3$

$(3, 3)$

16) $6x + 3y = 0$
$-4x - 6y = -16$

$(-2, 4)$